



# 210HP™

## POWERED ENCLOSURE

### OPERATING GUIDE

**CAUTION**  
TO PREVENT ELECTRICAL SHOCK OR FIRE HAZARD, DO NOT EXPOSE THIS INSTRUMENT TO RAIN OR MOISTURE. BEFORE USING THIS INSTRUMENT, READ BACK COVER FOR FURTHER WARNINGS.



The 210HP™ is a powered two-way enclosure designed primarily to be used for biamp applications in conjunction with bass guitar amplification systems. While this product should not be used as a full-range bass guitar system, it will function well as a powered sound reinforcement monitor or for general purpose PA.

The speaker system consists of two 10 inch Scorpion® loudspeakers, CH™ 3 horn with the model 22A™ compression driver and a passive, high-level crossover. The power amplifier (500 BH) is rated at 210 watts at 4 ohms and features DDT™ (Distortion Detection Technique), U.S. Patent #4,318,053, which prevents the amplifier from severe clipping.

When used in a biamp configuration, the recommended crossover frequency between the 210HP and the associated subwoofer is 250 Hz to 500 Hz.

#### 1. MAIN POWER AMP INPUT

Use to connect line level signal to power amplifier.

#### 2. AUXILIARY POWER AMP INPUT

Use to send line level signal to additional power amplifier (DAISY CHAIN). Will not operate unless main input is connected.

#### 3. LEVEL

Controls the volume level of the enclosure.

#### 4. LINE CORD

For your safety, we have incorporated a 3-wire line (mains) cable on the back of the chassis with proper grounding facilities. It is not advisable to remove the ground pin under any circumstances. If it is necessary to use the amplifier without proper grounding facilities, suitable grounding adapters should be used. Less noise and greatly reduced shock hazard exists when the unit is operated with the proper grounded receptacles. NOTE: The above statement in reference to removing the ground pin is applicable only to 120 volt model products.

#### 5. POWER SWITCH

Center position is "OFF." Two "ON" positions are provided, one of which will properly ground the amplifier. Switch to the "on" side that yields the lowest amount of residual hum or popping noise when the instrument is touched. 220 and 240 volt models utilize a two-way ON/OFF switch only.

#### 6. FUSE

The fuse is located within the cap of the fuseholder. If the fuse should fail, IT MUST BE REPLACED WITH THE SAME TYPE AND VALUE IN ORDER TO AVOID DAMAGE TO THE EQUIPMENT AND TO PREVENT VOIDING THE WARRANTY. If the amp repeatedly blows fuses, it should be taken to a qualified service center for repair.

**WARNING: THE FUSE SHOULD ONLY BE REPLACED WHEN THE POWER CORD HAS BEEN DISCONNECTED FROM ITS POWER SOURCE.**

#### 7. PILOT LIGHT

Illuminates when AC power is being supplied to the amp.



## 210HP™ POWERED ENCLOSURE SPECIFICATIONS

**500 BH MODULE WITH DDT™**  
**COMPRESSION RATED POWER & LOAD**  
 210W RMS into 4 ohms  
 300W RMS into 2 ohms

**POWER @ CLIPPING (TYPICALLY):**  
 (5% THD, 1 kHz 120 VAC Line)  
 130W RMS into 8 ohms  
 225W RMS into 4 ohms  
 320W RMS into 2 ohms

**AMPLIFIER FREQUENCY RESPONSE**  
 +0, -1 dB 20 Hz to 20 kHz @ 200 watts into 4 ohms

**SYSTEM RESPONSE**  
 90 Hz to 16 kHz, +/-3 dB

**TOTAL HARMONIC DISTORTION:**  
 Less than 0.1%, 200 mW to 200W RMS  
 20 Hz to 10 kHz, 4 ohms,  
 Typically below 0.05%

**INTERMODULATION DISTORTION:**  
 Less than 0.1%, 200 mW to 200W RMS,  
 60 Hz & 5 kHz, 4 ohms,  
 Typically below 0.05%

**DDT™ DYNAMIC RANGE**  
 Greater than 26 dB

**DDT MAXIMUM TOTAL HARMONIC DISTORTION:**  
 (1 kHz)  
 Below 0.5% THD for 6 dB overload  
 Below 1% THD for 20 dB overload

**HUM & NOISE:**  
 Greater than 90 dB below rated power

**INPUT SENSITIVITY:**  
 1V RMS (0 dBV) for full power output

**INPUT IMPEDANCE:**  
 50K ohms

**POWER CONSUMPTION: (DOMESTIC)**  
 800 watts, 50/60 Hz, 120 VAC

**DANGER**

EXPOSURE TO EXTREMELY HIGH NOISE LEVELS MAY CAUSE A PERMANENT HEARING LOSS. INDIVIDUALS VARY CONSIDERABLY IN SUSCEPTIBILITY TO NOISE INDUCED HEARING LOSS, BUT NEARLY EVERYONE WILL LOSE SOME HEARING IF EXPOSED TO SUFFICIENTLY INTENSE NOISE FOR A SUFFICIENT TIME.

THE U.S. GOVERNMENT'S OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) HAS SPECIFIED THE FOLLOWING PERMISSIBLE NOISE LEVEL EXPOSURES:

DURATION PER DAY IN HOURS	SOUND LEVEL dBA, SLOW RESPONSE
8	90
6	92
4	95
3	97
2	100
1½	102
1	105
¾	110
½	115

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ACCORDING TO OSHA, ANY EXPOSURE IN EXCESS OF THE ABOVE PERMISSIBLE LIMITS COULD RESULT IN SOME HEARING LOSS.

EAR PLUGS OR OTHER DEVICES IN THE EAR CANALS OR OVER THE EARS MUST BE WORN WHEN OPERATING THIS AMPLIFICATION SYSTEM IN ORDER TO PREVENT A PERMANENT HEARING LOSS IF EXPOSURE EXCEEDS THE LIMITS SET FORTH ABOVE. TO PROTECT AGAINST POTENTIALLY DANGEROUS EXPOSURE TO HIGH SOUND PRESSURE LEVELS, IT IS RECOMMENDED THAT ALL PERSONS EXPOSED TO EQUIPMENT CAPABLE OF PRODUCING HIGH SOUND PRESSURE LEVELS SUCH AS THIS AMPLIFICATION SYSTEM BE PROTECTED BY HEARING PROTECTORS WHILE THIS UNIT IS IN OPERATION.

**CAUTION**

THIS AMPLIFIER HAS BEEN DESIGNED AND CONSTRUCTED TO PROVIDE ADEQUATE POWER RESERVE FOR PLAYING MODERN MUSIC, WHICH MAY REQUIRE OCCASIONAL PEAK POWER. TO HANDLE OCCASIONAL PEAK POWER, ADDITIONAL POWER "HEADROOM" HAS BEEN DESIGNED INTO THIS SYSTEM. EXTENDED OPERATION AT ABSOLUTE MAXIMUM POWER LEVELS IS NOT RECOMMENDED SINCE THIS COULD DAMAGE THE ASSOCIATED LOUVER SPEAKER SYSTEM. PLEASE BE AWARE THAT MAXIMUM POWER CAN BE OBTAINED WITH VERY LOW SETTINGS OF THE GAIN CONTROL IF THE INPUT SIGNAL IS VERY STRONG.

1. Read all safety and operating instructions before using this product.
2. All safety and operating instructions should be retained for future reference.
3. Obey all cautions in the operating instructions and on the back of the unit.
4. All operating instructions should be followed.
5. This product should not be used near water, i.e. a bathtub, sink, swimming pool, wet basement, etc.
6. This product should be located so that its position does not interfere with its proper ventilation. It should not be placed flat against a wall or placed in a built-in enclosure that will impede the flow of cooling air.
7. This product should not be placed near a source of heat such as a stove, heater, radiator or another heat producing appliance.
8. Do not touch the power supply cord where it enters the unit.
9. Never break off the ground pin on the power supply cord. For more information on grounding, write for our free booklet "Shock Hazard and Grounding".
10. Power supply cords should always be handled carefully. Never walk or place equipment on power supply cords. Periodically check cords for signs of stress, especially at the plug and the point where the cord exits the unit.
11. The power supply cord should be unplugged when the unit is to be unused for long periods of time.
12. Metal parts can be cleaned with a damp rag. The vinyl covering used on some units can be cleaned with a damp rag, or an ammonia based household cleaner if necessary.
13. Some electrical shock can so that electrical parts do not fall and liquids are not spilled into the unit through the ventilation holes or any other openings.
14. This unit should be checked by a qualified service technician if:
  - A. The power supply cord or plug has been damaged.
  - B. Anything has fallen on or been spilled into the unit.
  - C. The unit does not operate correctly.
  - D. The unit has been dropped or the enclosure damaged.
15. The user should not attempt to service this equipment. All service work should be done by a qualified service technician.



Due to our efforts for constant improvement, features and specifications are subject to change without notice.

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#80300532 2/86